

**AMENDMENT****Listing of Claims:**

The following listing of claims replaces all previous listings or versions thereof:

1. (Currently amended) An isolated antimicrobial peptide of 12-37 residues, the peptide comprising one of the amino acid sequences selected from the group consisting of:

KNLRRIRKIIHIKKYG-NH<sub>2</sub> (SEQ ID NO: 1),  
KNIRRIIRKIIHIKKYG-NH<sub>2</sub> (SEQ ID NO: 6),  
KNIRRIIRKIIHIKKYG (SEQ ID NO: 7),  
KNLRRIRKIIHIKKYG (SEQ ID NO: 8),  
NLRRIRKIIHIKKY (SEQ ID NO 9),  
NIRRIIRKIIHIKKY (SEQ ID NO: 10),  
LRRIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 11),  
LRRIRKIIHIKK (SEQ ID NO: 12),  
IRRIIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 13),  
IRRIIRKIIHIKK (SEQ ID NO: 14),  
LRRIRKIIHIK-NH<sub>2</sub> (SEQ ID NO: 15),  
RRIIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 16),  
RRIIRKIIHIK-NH<sub>2</sub> (SEQ ID NO: 17),  
~~KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20),~~  
RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21),  
LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22),  
LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23),  
RKFRNKIKEKLKKIG (SEQ ID NO: 24),  
KIKEKLKKIGQKIQG (SEQ ID NO: 25),  
KIKEKLKKIGQKIQGLL (SEQ ID NO: 26),  
and

KNLRRIRKIIHIKKYGPTILRIIRIG-NH<sub>2</sub> (SEQ ID NO: 28).

2. (Canceled)

3. (Currently amended) A pharmaceutical composition comprising an antimicrobial peptide of 12 to 37 residues, the peptide comprising ~~[[an]]~~one of the amino acid ~~sequence~~sequences selected from the group consisting of:

KNLRRIRKIIHIKKYG-NH<sub>2</sub> (SEQ ID NO: 1),

KNIRRIIRKIIHIKKYG-NH<sub>2</sub> (SEQ ID NO: 6),

KNIRRIIRKIIHIKKYG (SEQ ID NO: 7),

KNLRRIRKIIHIKKYG (SEQ ID NO: 8),

NLRRIRKIIHIKKY (SEQ ID NO 9),

NIRRIIRKIIHIKKY (SEQ ID NO: 10),

LRRIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 11),

LRRIRKIIHIKK (SEQ ID NO: 12),

IRRIIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 13),

IRRIIRKIIHIKK (SEQ ID NO: 14),

LRRIRKIIHIK-NH<sub>2</sub> (SEQ ID NO: 15),

RRIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 16),

RRIRKIIHIK-NH<sub>2</sub> (SEQ ID NO: 17),

~~KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20),~~

RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21),

LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22),

LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23),

RKFRNKIKEKLKKIG (SEQ ID NO: 24),

KIKEKLKKIGQKIQG (SEQ ID NO: 25),

KIKEKLKKIGQKIQGLL (SEQ ID NO: 26),

and

KNLRRIRKIIHIKKYGPTILRIIRIG-NH<sub>2</sub> (SEQ ID NO: 28),

formulated in a pharmaceutically acceptable carrier.

4-33. (Canceled)

34. (Previously presented) An antimicrobial peptide consisting of a sequence  
KNLRRIIRKIIHIKKYG-NH<sub>2</sub> (SEQ ID NO: 1).
35. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence  
KNIRRIIRKIIHIKKYG-NH<sub>2</sub> (SEQ ID NO: 6).
36. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence  
KNIRRIIRKIIHIKKYG (SEQ ID NO: 7).
37. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence  
KNLRRIIRKIIHIKKYG (SEQ ID NO: 8).
38. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence  
NLRRRIIRKIIHIKKY (SEQ ID NO 9).
39. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence  
NIRRIIRKIIHIKKY (SEQ ID NO: 10).
40. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence  
LRRIIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 11).
41. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence  
LRRIIRKIIHIKK (SEQ ID NO: 12).
42. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence  
IRRIIRKIIHIKK-NH<sub>2</sub> (SEQ ID NO: 13).

43. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence **IRRIIRKIIHIKK** (SEQ ID NO: 14).
44. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence **LRRIIRKIIHIK-NH<sub>2</sub>** (SEQ ID NO: 15).
45. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence **RRIIRKIIHIKK-NH<sub>2</sub>** (SEQ ID NO: 16).
46. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence **RRIIRKIIHIK-NH<sub>2</sub>** (SEQ ID NO: 17).
47. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence **GLRKRLRKFRNKIKEKLKKIG** (SEQ ID NO: 19).
48. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence **KRLRKFRNKIKEKLKKIG** (SEQ ID NO: 20).
49. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence **RKRLRKFRNKIKEKLKKIGQKI** (SEQ ID NO: 21).
50. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence **LRKFRNKIKEKLKKIGQKI** (SEQ ID NO: 22).
51. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence **LRKFRNKIKEKLKKIGQKIQG** (SEQ ID NO: 23).
52. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence **RKFRNKIKEKLKKIG** (SEQ ID NO: 24).

53. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KIKEKLKKIGQKIQG (SEQ ID NO: 25).
54. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KIKEKLKKIGQKIQGLL (SEQ ID NO: 26).
55. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KNLRRIIRKIIHKKYGPILRIIRIG-NH<sub>2</sub> (SEQ ID NO: 28).